



Tucson's Plan for Energy Efficiency Investments: 2009- 2012

SOLAR 101

David Schaller
Administrator
Office of Conservation and Sustainable Development
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- Authorized in 2007 Energy Act
- Funded in 2009 Recovery Bill (\$3.2 B)
- Eligible cities share \$952 M
- Tucson's formula amount \$5,155,300
- 10% of funding can be used by the City for grant management purposes
- 14 categories of eligible activities

14 Eligible Activities

Develop a Citywide EEC Strategy

Services for EEC Strategy Development EE Programs for Buildings

Consultant

Residential and **Financial Commercial** Incentive **Energy Audits Programs for** DE **EE Programs in**

Grants to Non-**Profits for EE Retrofits**

and Facilities

Building Codes to Promote EE **Transportation**

Distributed Energy Systems

Recycling and Materials Reduction **Leading to EE**

Methane Gas Capture at Landfills

Traffic and Street Light Replacement

RE Technology Installation on City Buildings

Other **Appropriate** Activities



EE = Energy Efficiency EEC = Energy Efficiency and Conservation RE = Renewable Energy

The Process We Followed

- Guidance/Direction From Mayor and Council
- Weekly Departmental Meetings to Identify Potential Projects/Programs
- Extensive Community Stakeholder Engagement
- Screen Suggested Project/Program Ideas with DOE Criteria and Mayor/Council Directions
- Final Meetings with Department Directors
- Presentation of Proposed Investment Plan to Mayor and Council June 2, 2009

DOE Approval Metrics

- Energy savings per dollar invested
- Greenhouse gases reduced
- Jobs created or retained
- Funds leveraged; partnering/collaboration
- Programs extending beyond the life of the grant

Limitations & Administrative Requirements

- Up to 20% for a revolving loan fund
- Up to 20% for sub-grants to non-profits
- Up to 10% for City administrative costs
- 50% distribution of funds upon strategy/application approval by DOE
- Remainder released after later DOE Program Reviews (~ 6-12 months out?)
- All funds must be obligated within 18 months; all funds spent within 36 months

Energy Efficiency Strategy

We will use EECBG funds to:

- a) compliment the City's growing renewable energy program with a widespread energy efficiency initiative
- b) build upon our existing green building code and land use planning measures
- c) strengthen our existing water/energy efficiency programs
- d) further capture low-cost energy efficiency gains in City facilities

Energy Efficiency Strategy

- e) extend energy efficiency opportunities to residential and commercial sectors
- f) support the City's Climate Change and Green Jobs Coalition Initiatives
- g) implement a Green Business Certification Program and provide energy audits in the commercial sector

Proposed EECBG Investment Summary June 2, 2009

COMMUNITY PROGRAMS/PROJECTS	Leveraging/Partners	Proposed Funding Level	Long-term Revenue Generation/Transformational Attributes
Grants to Non-Profits for Energy Efficiency (EE) Retrofits	Various Non-Profit Organizations (affordable housing, green jobs training, green building retrofits)	\$1,030,000	TBD
Commercial EE Audits and Green Business Certification Program	Partnering with TEP and Local Businesses	\$400,000	Yes
Neighborhood Streetlight Conversion Program	Leveraging Transportation Support	\$424,000	Yes
Commercial Recycling Program	Leveraging Environmental Services Enterprise Fund Support	\$150,000	Yes
Green Jobs Coalition Clearinghouse	Community Partners, Public and Private Sector	\$260,000	Yes
Sustainable Land Use Planning Code	Leveraging Planning Support	\$230,000	Yes
Net-Zero Energy Building Code Development	Partnering with Pima County and possibly Oro Valley	\$106,000	Yes
Community EE and Climate Action Planning Program	Leveraging Climate Change Advisory Committee and OCSD Support	\$350,000	Yes
SUBTOTAL		\$2,950,000	

CITY PROGRAMS/PROJECTS	Leveraging/Partners	Proposed Funding	Long-term Revenue Generation/Transformational
		Level	Attributes
COT Water/Energy Audit	Leveraging Tucson	\$400,000	Yes
Program	Water Enterprise Fund		
	Support		
Water Pump Booster	Leveraging Tucson	\$600,000	Yes
Efficiency Program	Water Enterprise Fund		
	Support		
IT Implementation of Server	Leveraging Information	\$180,000	Yes
Virtualization	Technology Support		
IT Data Center	Leveraging Information	\$310,000	Yes
Consolidation Program	Technology		
City Parking Lot Lighting	Leveraging General	\$200,000	Yes
Retrofit Project	Services Support		
SUBTOTAL		\$1,690,000	
Administration		\$515,000	
EECBG TOTAL		\$5,155,000	
FUNDING			

Highlights of \$5.1 Million Strategy and Investment Plan

- Investment Plan Weighted Toward Community Energy Savings and Job Creation/Retention Benefits
- Fast-Payback City Facility Energy Efficiency Upgrades
- Necessity of Pooling Savings to Sustain Continued Efficiency Upgrades
- A Phased-in Approach to Program & Project Funding

Next Steps

- Complete and Submit Application
- Design Internal Financial Accounting Mechanisms to Track, Capture and Disburse Energy Efficiency Savings Into Additional Projects
- Develop Contract and Sub-Grant Strategies and Timelines
- Develop Internal Project Implementation, Monitoring, and Measurement Plans
- Determine Phasing Plan for Funding

